

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 14 JUL 2005
WIPO PCT

To:
OGURI, Shohei

Eikoh Patent Office,
13th Floor,
ARK Mori Building,
12-32, Akasaka
1-chome, Minato-ku, Tokyo
1076013 Japan

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing (day/month/year)	12.7.2005
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Applicant's or agent's file reference
P05020600

FOR FURTHER ACTION
See paragraph 2 below

International application No. PCT/JP2005/005608	International filing date (day/month/year) 18.03.2005	Priority date (day/month/year) 22.03.2004
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International Patent Classification (IPC) or both national classification and IPC
Int.Cl.⁷ H01L31/10, 27/146, 51/00

Applicant
FUJI PHOTO FILM CO., LTD.

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Date of completion of this opinion		28.06.2005	
Name and mailing address of the ISA/JP <p style="text-align: center;">Japan Patent Office</p> 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer <p style="text-align: center;">Yukihiro KONDO</p> Telephone No. +81-3-3581-1101 Ext. 3255		

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/005608

Box No. I **Basis of the opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/005608

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims		NO
Inventive step (IS)	Claims	6-11	YES
	Claims	1-5, 12-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO

2. Citations and explanations

D1: JP 2003-332551 A (CANON KABUSIKI KAISHA) 2003.11.21
D2: JP 2004-6272 A (SANYO DENKI KABUSIKI KAISHA) 2004.01.08
D3: JP 2003-158254 A (NIPPON HOSO KYOKAI) 2003.05.30

The subject matter of claims 1 and 5 do not appear to involve an inventive step in view of the document 1 and 2 both cited in the ISR. The technical feature of using Alq as an electron transporting organic material is disclosed in D1 (paragraph 0053). And Alq has an ionization potential more than 5.5eV (see D2; paragraph 0026).

The subject matter of claims 2 and 3 do not appear to involve an inventive step in view of the document 1, 2 and 3 all cited in the ISR. The technical features described in claim 2 and 3 are common general technical knowledge (see D3; paragraphs 0030-0031).

The subject matter of claim 4 does not appear to involve an inventive step in view of the document 1, 2 and 3 all cited in the ISR. The subject matter of an ionization potential of the electron transporting organic material being more than 6.0eV could have easily arrived by a person skilled in the art.

The subject matter of claims 12-20 do not appear to involve an inventive step in view of the document 1, 2 and 3 all cited in the ISR. Structures of photodetector/imaging device described in claims 12-20 are all disclosed in D1.

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Date of completion of this opinion

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Name and mailing address of the ISA/JP

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Authorized officer

Yukihiro KONDO

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2K 8422

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International application No.

PCT/JP2005/005608

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims		NO
Inventive step (IS)	Claims	6-11	YES
	Claims	1-5, 12-20	NO
Industrial applicability (IA)	Claims	1-20	YES
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